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2 CLAIMS.

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4 We claim:
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- 6 1. A composition for application to a fibrous cellulosic material, the composition
7 consisting essentially of a triglyceride having a melting point greater than 120 degrees
8 F, and being characterized by an iodine value between 0 and 30, the triglyceride
9 comprising an oil selected from the group consisting of soybean, corn, cottonseed,
10 rape, canola, sunflower, palm, palm kernel, coconut, cranbe, linseed and peanut, the
11 composition applied in a quantity sufficient to render the cellulosic material resistant
12 to water, the composition being dispersible in a warm aqueous solution.
13
14 2. The composition as described in claim 1, wherein the melting point preferably is
15 between approximately 130 and 165 degrees F.
16
17 3. The composition as described in claim 2, wherein the melting point most preferably
18 is between approximately 136 and 160 degrees F.
19
20 4. The composition as described in claim 2, wherein the composition is further
21 characterized by having a viscosity of between 10 to 200 cps at a temperature of 140
22 degrees F.
23
24 5. The composition as described in claim 4, wherein the triglyceride is preferably
25 characterized by an iodine value between 0 and 10.
26
27 6. The composition as described in claim 5, wherein the triglyceride is most preferably
28 characterized by an iodine value between approximately 2 and 5.
29
30 7. The composition as described in claim 5, wherein the triglyceride comprises a fatty
31 acid, the fatty acid having between approximately 8 to 22 carbon atoms.
32

- 1 8. The composition as described in claim 7, wherein the fatty acid preferably is stearic
2 acid.
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- 4 9. The composition as described in claim 4, further comprising one or more compounds
5 chosen from the group consisting of paraffins, microcrystalline waxes, stearic acid,
6 and oleic acid, and wherein the triglyceride comprises at least 50% of the
7 composition.
8
- 9 10. The composition as described in claim 9, further comprising one or more compounds
10 chosen from the group consisting of dispersants and surfactants.
11
- 12 11. The composition as described in claim 1, wherein the triglyceride is selected from the
13 group consisting of animal fat, animal fat fractions, winterized low iodine value fat
14 fractions, hydrogenated animal fat, stearine and soy stearine, and blends thereof.
15
- 16 12. The composition as described in claim 1, wherein the composition further comprises
17 a polymeric resin and a tackifier, thereby forming an adhesive for application to the
18 fibrous cellulosic material.
19
- 20 13. The composition as described in claim 12, wherein the tackifier is a rosin derivative
21 selected from the group consisting of a rosin ester, hydrogenated rosin, and maleic
22 modified rosin.
23
- 24 14. The composition as described in claim 12, wherein the polymeric resin is ethylene or
25 ethylene vinyl acetate.
26
- 27 15. The composition as described in claim 12, wherein the fibrous cellulosic article is
28 chosen from the group consisting of paper, kraft paper, corrugated paper and
29 linerboard
30

1 16. The composition as described in claim 1, wherein the triglyceride comprises between
2 approximately 80 to 100% by weight of the composition.

3
4 17. The composition as described in claim 2, wherein the triglyceride is characterized by
5 having a saponification value of between approximately 150 mg/g KOH to 200
6 mg/g/KOH.

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8 18. A method of treating a cellulosic article such that the treated article is resistant to
9 water, the method comprising the steps of:

10
11 heating a composition to a temperature sufficient to render the composition
12 molten, the composition consisting essentially of a triglyceride having a melting
13 point greater than 120 degrees F, and being characterized by an iodine value
14 between 0 and 30, the triglyceride comprising an oil selected from the group
15 consisting of soybean, corn, cottonseed, rape, canola, sunflower, palm, palm
16 kernel, coconut, cranbe, linseed and peanut;

17
18 applying to the cellulosic article a quantity of the molten composition sufficient to
19 render the cellulosic article water resistant; and

20
21 allowing the applied composition to solidify and form a coating, the coating being
22 dispersible from the treated cellulosic article, when the treated cellulosic article is
23 exposed to a warm, alkaline, aqueous solution.

24
25 19. The method as described in claim 18, wherein the melting point of the composition
26 preferably is between approximately 130 and 165 degrees F.

27 20. The method as described in claim 19, wherein the melting point of the composition
28 most preferably is between approximately 136 and 160 degrees F.

- 1 21. The method as described in claim 19, wherein the composition is further
2 characterized by having a viscosity of between 10 to 200 cps at a temperature of 140
3 degrees F.
4
- 5 22. The method as described in claim 18, wherein the triglyceride is preferably
6 characterized by an iodine value of between 0 and 10.
7
- 8 23. The method as described in claim 22, wherein the triglyceride is most preferably
9 characterized by an iodine value between approximately 2 and 5.
10
- 11 24. The method as described in claim 19, wherein the triglyceride comprises a fatty acid,
12 the fatty acid having between approximately 8 to 22 carbon atoms.
13
- 14 25. The method as described in claim 24, wherein the fatty acid preferably is stearic acid.
15
- 16 26. The method as described in claim 24, wherein the composition further comprises one
17 or more compounds chosen from the group consisting of paraffins, microcrystalline
18 waxes, stearic acid, and oleic acid, and wherein the triglyceride comprises at least
19 50% of the composition.
20
- 21 27. The method as described in claim 26, wherein the composition further comprises one
22 or more compounds chosen from the group consisting of dispersants and surfactants.
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- 24 28. The method as described in claim 27, wherein the cellulosic article is chosen from
25 the group consisting of paper, kraft paper, corrugated paper and linerboard.
26
- 27 29. A composition for application to a fibrous cellulosic material, the composition
28 consisting essentially of a triglyceride having a melting point between 136-160
29 degrees F, the triglyceride being characterized by having an iodine value of between 2
30 and 5, the composition being characterized by a viscosity of between 10 to 200 cps at
31 140 degrees F, wherein the triglyceride comprises a fatty acid, the fatty acid being

1 stearic acid, and wherein the triglyceride comprises an oil selected from the group
2 consisting of palm and soybean oil, the composition applied in a quantity to render
3 the cellulosic material resistant to water, the composition being dispersible in a warm
4 aqueous solution..
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